

SEQUENCE LISTING

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Messer, Anne
Lecerf, Jean-Michel

<120> METHODS AND COMPOSITIONS FOR INHIBITING POLYPEPTIDE
ACCUMULATION ASSOCIATED WITH NEUROLOGICAL DISORDERS

<130> INR-004CP

<140>

<141>

<150> 60/146,047

<151> 1999-07-27

<160> 45

<170> PatentIn Ver. 2.0

<210> 1

<211> 345

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<220>

<223> The VH sequence uses a V segment of the VH3
family.

<220>

<223> CDR1 sequence: from base 91 to base 105 (15
bases).

<220>

<223> CDR2 sequence: from base 148 to base 198 (51
bases).

<220>

<223> CDR3 sequence: from base 295 to base 312 (18
bases).

<400> 1

cagggtgcagc tgcaggagtc ggggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tctgtgcag cctctggatt caccttcagt agttatagca tgagctgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagcaa taaatactac 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cagctgtat 240
cttcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gagagatagg 300
tacttcgatc tctgggggccg tggcacccctg gtcaccgtct cctca 345

<210> 2

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

sub A17

A

007120-55602500

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<400> 2
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1          5          10          15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
  20          25          30
Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
  35          40          45
Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
  50          55          60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
  65          70          75          80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
  85          90          95
Ala Arg Asp Arg Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr
  100          105          110
Val Ser Ser
  115

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<210> 3
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> The VL sequence uses a V segment of the VL2
family.

<220>
<223> CDR1 sequence: from base 67 to base 108 (42
bases) .

<220>
<223> CDR2 sequence: from base 154 to base 174 (21
bases) .

<220>
<223> CDR3 sequence: from base 271 to base 294 (24
bases) .
```

<400>	3						
ca	g	t	c	t	c	g	60
tg	a	c	t	c	a	g	120
tg	a	c	c	t	c	c	180
t	c	t	c	t	c	c	240
t	c	t	c	t	c	c	300
g	c	c	t	c	c	c	327

<220>

<400> 6

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly
145 150 155 160

Lys Leu Leu Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Ile Ser Asn
180 185 190

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Phe Ala
210 215 220

Asn Ser Gly Pro Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu
225 230 235

<210> 7

<211> 44

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Description of Artificial Sequence: Synthetic construct

 $\langle 400 \rangle$ 7

tcaccgtctc ctcaggtgga ggcggttcag gcggaggtgg ctct

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 42 glutamine (Q) residues

<400> 11
Leu Val Pro Arg Gly Ser Met Ala Thr Leu Glu Lys Leu Met Lys Ala
1 5 10 15

Phe Glu Ser Leu Lys Ser Phe Leu Gln Pro Gly Ser Thr Arg Ala Ala
20 25 30

Ala Ser

<210> 12
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 47 glutamine (Q) residues

<400> 12
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa

<210> 13
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 72 glutamine (Q) residues

<400> 13
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa

001220 55000300

<210> 14
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 104 glutamine (Q) residues

<400> 14
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa

<210> 15
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 47 glutamine (Q) residues

<400> 15
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa Leu Gln Pro Gly Gly Ser Thr Met Ser Arg Gly Pro Phe Glu
20 25 30

Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His His
35 40 45

His His His His
50

<210> 16
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 72 glutamine (Q) residues

<400> 16
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

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<210> 19


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<400> 21
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
  1                      5                      10                      15

Phe Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
  20                      25                      30
```

Glu Gly Gly Ser Ser His His Ala His Pro Tyr Ala Met Ser Pro Ser
50 55 60

<210> 24
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<400> 24
Leu Leu Ala Asn Met Gly Ser Leu Ser Gln Thr Pro Gly His Lys Ala
1 5 10 15
Glu Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln His Gln His
20 25 30
Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln His
35 40 45
Leu Ser Arg Ala Pro Gly Leu Ile Thr Pro Gly Ser Pro Pro Pro Ala
50 55 60
Gln Gln Asn Gly Tyr Val His Ile Ser Ser Ser Pro Gln Asn Thr Gly
65 70 75 80

Arg

<210> 25
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<400> 25
Arg Pro Ala Cys Glu Pro Val Tyr Gly Pro Leu Thr Met Ser Leu Lys
1 5 10 15
Pro Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
20 25 30
Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Ala Ala Ala Asn Val Arg
35 40 45
Lys Pro Gly Gly Ser Gly Leu Leu Ala Ser Pro Ala Ala Ala Pro Ser
50 55 60
Pro Ser Ser Ser Ser Val Ser Ser
65 70

<210> 26
<211> 72
<212> PRT
<213> Artificial Sequence

00120550300

<223> Description of Artificial Sequence: Synthetic construct

Glu Glu Leu Arg Lys Arg Arg Glu Ala Tyr Phe Glu Lys Gln Gln Gln
1 5 10 15

Gln Gln Gln Gln Gln Gln Gln Arg Asp Leu Ser Gly Gln Ser Ser His
35 40 45

Gly Lys Ala Cys Ser Pro Phe Ile
65 70

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic construct

Gln Pro Ile Gln Asn Thr Asn Ser Leu Ser Ile Leu Glu Glu Gln Gln
1 5 10 15

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
35 40 45

Ser Thr Ser Gln Gln Ala Thr Gln Gly Thr Ser Gly Gln Ala Pro Gln
65 70 75 80

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic construct

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

5

<400> 32

<210>	36
<211>	40
<212>	PRT

<223> Description of Artificial Sequence: Synthetic

construct

<400> 39

Lys Lys Glu Tyr Val Glu Leu Tyr Thr Gln Trp Arg Ile Val Asp Arg
1 5 10 15

Val Gln Glu Gln Phe Lys Ala Phe Met Asp Gly Phe Asn Glu Leu Ile
20 25 30

Pro Glu Asp Leu Val Thr Val Phe Asp Glu Arg
35 40

<210> 40

<211> 43

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 40

Glu Leu Glu Leu Leu Ile Gly Gly Ile Ala Glu Ile Asp Ile Glu Asp
1 5 10 15

Trp Lys Lys His Thr Asp Tyr Arg Gly Tyr Gln Glu Ser Asp Glu Val
20 25 30

Ile Gln Trp Phe Trp Lys Cys Val Ser Glu Trp
35 40

<210> 41

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 41

Asp Asn Glu Gln Arg Ala Arg Leu Leu Gln Phe Thr Thr Gly Thr Ser
1 5 10 15

Arg Ile Pro Val Asn Gly Phe Lys Asp Leu Gln Gly Ser Asp Gly Pro
20 25 30

Arg Arg Phe Thr Ile Glu Lys Ala Gly Glu Val Gln
35 40

<210> 42

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

00120:5562560

~~<210> 43~~
~~<211> 9~~
~~<212> PRT~~
~~<213> Artificial Sequence~~
~~<220>~~
~~<223> Description of Artificial Sequence: Synthetic construct~~

<400> 43
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

```
<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct
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<400> 44
Thr Pro Pro Leu Leu Leu Arg Leu Val
1 5

```
<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct
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~~<400> 45
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10~~

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4400> 42
Gln Leu Pro Lys Ser His Thr Cys Phe Asn Arg Val Asp Leu Pro Gln
1 5 10 15
Tyr Val Asp Tyr Asp Ser Met Lys Gln Lys Leu Thr Leu Ala Val Glu
20 25 30
Glu Thr Ile Gly Phe Gly Gln Glu
35 40

```

~~<210> 43~~
~~<211> 9~~
~~<212> PRT~~
~~<213> Artificial Sequence~~
~~<220>~~
~~<223> Description of Artificial Sequence: Synthetic construct~~

<400> 43
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

```
<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct
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<400> 44
Thr Pro Pro Leu Leu Leu Arg Leu Val
1 5

```
<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct
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~~<400> 45
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10~~